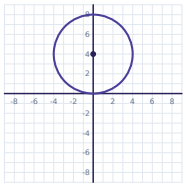
Task card 1 Equations of Circles

Write the equation of the circle with center (0, 4) and radius 4.



Task card 2 Equations of Circles

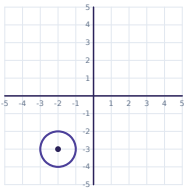
Find the center of the circle $(x - 2)^2 + (y + 3)^2 = 1$.

Task card 3 Equations of Circles

Find the radius of the circle $(x - 4)^2 + (y - 4)^2 = 9$.

Task card 4 Equations of Circles

Write the equation of the circle with center (-2, -3) and radius 1.



Task card 5 Equations of Circles

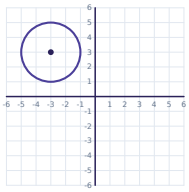
Find the center of the circle $(x + 3)^2 + (y + 1)^2 = 9$.

Task card 6 Equations of Circles

Find the radius of the circle $(x + 1)^2 + y^2 = 16$.

Task card 7 Equations of Circles

Write the equation of the circle with center (-3, 3) and radius 2.

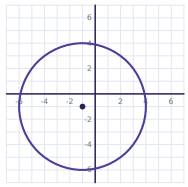


Task card 8 Equations of Circles

Find the center of the circle $(x + 1)^2 + (y - 4)^2 = 4$.

Task card 9 Equations of Circles

Write the equation of the circle with center (-1, -1) and radius 5.



Task card 10 Equations of Circles

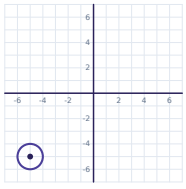
Find the center of the circle $(x - 4)^2 + (y - 1)^2 = 25$.

Task card 11 Equations of Circles

Find the radius of the circle $(x + 3)^2 + y^2 = 1$.

Task card 12 Equations of Circles

Write the equation of the circle with center (-5, -5) and radius 1.



Task card 13 Equations of Circles

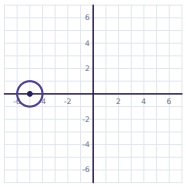
Find the center of the circle $(x - 3)^2 + (y + 4)^2 = 9$.

Task card 14 Equations of Circles

Find the radius of the circle $(x + 2)^2 + (y + 2)^2 = 4$.

Task card 15 Equations of Circles

Write the equation of the circle with center (-5, 0) and radius 1.

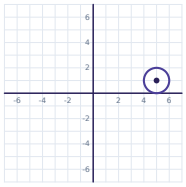


Task card 16 Equations of Circles

Find the center of the circle $x^2 + (y + 4)^2 = 4$.

Task card 17 Equations of Circles

Write the equation of the circle with center (5, 1) and radius 1.

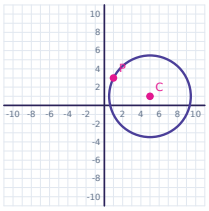


Task card 18 Equations of Circles

Find the center of the circle $(x - 5)^2 + (y + 5)^2 = 36$.

Task card 19 Equations of Circles

A circle has center (5, 1) and passes through the point (1, 3). Write its equation.

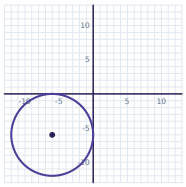


Task card 20 Equations of Circles

Find the radius of the circle $(x - 5)^2 + (y + 6)^2 = 16$.

Task card 21 Equations of Circles

Write the equation of the circle with center (-6, -6) and radius 6.

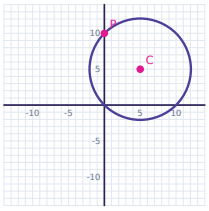


Task card 22 Equations of Circles

Find the center of the circle $(x - 3)^2 + (y - 6)^2 = 4$.

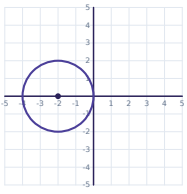
Task card 23 Equations of Circles

A circle has center (5, 5) and passes through the point (0, 10). Write its equation.



Task card 24 Equations of Circles

Write the equation of the circle with center (-2, 0) and radius 2.



Equations of Circles Task Cards

Recording sheet · Grade 10 · Write equations in standard form (x - h)^2 + (y - k)^2 = r^2. Write centers as (h, k). Use simplest radical form for radii that are not whole numbers.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Equations of Circles Task Cards: Answer Key

Grade 10 · Easy

The answers online

1. $x^2 + (y - 4)^2 = 16$	**2.** (2, -3)	**3.** 3
4. $(x + 2)^2 + (y + 3)^2 = 1$	**5.** (-3, -1)	**6.** 4
7. $(x + 3)^2 + (y - 3)^2 = 4$	**8.** (-1, 4)	**9.** $(x + 1)^2 + (y + 1)^2 = 25$
10. (4, 1)	**11.** 1	**12.** $(x + 5)^2 + (y + 5)^2 = 1$
13. (3, -4)	**14.** 2	**15.** $(x + 5)^2 + y^2 = 1$
16. (0, -4)	**17.** $(x - 5)^2 + (y - 1)^2 = 1$	**18.** (5, -5)
19. $(x - 5)^2 + (y - 1)^2 = 20$	**20.** 4	**21.** $(x + 6)^2 + (y + 6)^2 = 36$
22. (3, 6)	**23.** $(x - 5)^2 + (y - 5)^2 = 50$	**24.** $(x + 2)^2 + y^2 = 4$